

Project Fact Sheet

Commonwealth Project 1.1 - Program

Planning and Analysis

GOALS

- Determine the most appropriate renewable resources in the region of interest to fully serve the electric distribution grid.
- Determine the most appropriate geographic and electric system boundaries of the electric distribution mini-grid.
- Assess the technical and market electricity potential of these identified resources within the specified markets in the mini-grid.
- Estimate the electric system public benefits of the full development of these renewable resources within the region of interest over the next 5 and 10 years.
- Identify candidate sites to participate in the team's RD&D pilot program activities to utility deployment programs.



PROJECT DESCRIPTION

The project is to develop formal means of assessing the potential for meeting sub regional needs with local renewable resources for one or two areas within California, and to apply this approach to the development of biogas and solar photovoltaic generation facilities for at least one of these areas. The project will cover assessments of regional energy needs, assessments of biogas and solar resources, and the evaluation of regional grid conditions through power flow modeling.

BENEFITS TO CALIFORNIA

The project will benefit California in develop analytical tool to match renewables mixes to the forecasted pattern of local area demand. The development strategies produced by the project should demonstrate how generation facilities can be made more cost effective and the energy they produce more affordable. Synchronizing the operating features of a mix of renewable resources with the diurnal patterns of demand and the features of the local grid should make development efforts more cost effective and lead to more affordable energy. Moreover, the

development of measurement and evaluation plans under this project should allow other projects to be designed in ways that maximize their usefulness in achieving overall program objectives.

FUNDING AMOUNT

Commission	\$1,336,613
Match	\$20,000
Total	\$1,356,613

PROJECT STATUS

The project is scheduled from 6/5/2002 to 6/7/2003. The Commonwealth program kick off meeting was held on May 29, 2002 at the California Energy Commission. The project is currently on schedule and within the budget.



FOR MORE INFORMATION

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